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0590  
0710

## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/057,532  
Source: 01PE  
Date Processed by STIC: 7/11/02

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

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**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

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Revised 01/29/2002



OIPE

Does Not Comply  
Corrected Diskette Needed

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002

TIME: 16:04:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112002\J057532.raw

W--&gt; 3 /14 - delete

10 &lt;110&gt; APPLICANT: Lyon, Jeffrey A.

11 Angov, Evelina

12 Cohen, Joe D.

13 Voss, Gerald

15 &lt;120&gt; TITLE OF INVENTION: Recombinant P. falciparum Merozoite Protein-142 Vaccine

17 &lt;130&gt; FILE REFERENCE: 003/238/SAP

19 &lt;140&gt; CURRENT APPLICATION NUMBER: US 10/057,532

C--&gt; 21 &lt;141&gt; CURRENT FILING DATE: 2002-06-28

23 &lt;150&gt; PRIOR APPLICATION NUMBER: US 60/264,535, US 60/347,564

W--&gt; 25 &lt;151&gt; PRIOR FILING DATE: 2001-01-26, 2001-10-26

27 &lt;160&gt; NUMBER OF SEQ ID NOS: 12

29 &lt;170&gt; SOFTWARE: Apple Macintosh Microsoft Word 6.0

## ERRORED SEQUENCES

31 &lt;210&gt; SEQ ID NO: 1

32 &lt;211&gt; LENGTH: 546

33 &lt;212&gt; TYPE: PRT

34 &lt;213&gt; ORGANISM: Artificial sequence

W--&gt; 35 &lt;220&gt; FEATURE:

36 &lt;223&gt; OTHER INFORMATION: E. coli expressed P. falciparum MSP142 (3D7) Protein Sequence in pET-Trx42

W--&gt; 37 &lt;400&gt; SEQUENCE: 1

38 Met Ser Asp Lys Ile Ile His Leu Thr Asp

39 1 5 10

40 Asp Ser Phe Asp Thr Asp Val Leu Lys Ala

41 15 20

42 Asp Gly Ala Ile Leu Val Asp Phe Trp Ala

43 25 30

E--&gt; 44 Glu Trp Cys Gly Pro Ccy Lys Met Ile Ala

45 35 40

46 Pro Ile Leu Asp Glu Ile Ala Asp Glu Tyr

47 45 50

48 Gln Gly Lys Leu Thr Val Ala Lys Leu Asn

49 55 60

50 Ile Asp Gln Asn Pro Gly Thr Ala Pro Lys

51 65 70

52 Tyr Gly Ile Arg Gly Ile Pro Thr Leu Leu

53 75 80

54 Leu Phe Lys Asn Gly Glu Val Ala Ala Thr

55 85 90

56 Lys Val Gly Ala Leu Ser lys Gly Gln Leu

invalid amino designator

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002

TIME: 16:04:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112002\J057532.raw

57	95	100
58	Lys Glu Phe Leu Asp Ala Asn Leu Ala Gly	
59	105	110
60	Ser Gly Ser Gly His Met His His His His	
61	115	120
62	His His Ser Ser Gly Leu Val Pro Arg Gly	
63	125	130
64	Ser Gly Met Lys Glu Thr Ala Ala Ala Lys	
65	135	140
66	Phe Glu Arg Gln His Met Asp Ser Pro Asp	
67	145	150
68	Leu Gly Thr Asp Asp Asp Asp Lys Ala Met	
69	155	160
70	Ala Asp Ile Gly Ser Ile Glu Gly Arg Gly	
71	165	170
72	Thr Met Ala Ile Ser Val Thr Met Asp Asn	
73	175	180
74	Ile Leu Ser Gly Phe Glu Asn Glu Tyr Asp	
75	185	190
76	Val Ile Tyr Leu Lys Pro Leu Ala Gly Val	
77	195	200
78	Tyr Arg Ser Leu Lys Lys Gln Ile Glu Lys	
79	205	210
80	Asn Ile Phe Thr Phe Asn Leu Asn Leu Asn	
81	215	220
82	Asp Ile Leu Asn Ser Arg Leu Lys Lys Arg	
83	225	230
84	Lys Tyr Phe Leu Asp Val Leu Glu Ser Asp	
85	235	240
86	Leu Met Gln Phe Lys His Ile Ser Ser Asn	
87	245	250
88	Glu Tyr Ile Ile Glu Asp Ser Phe Lys Leu	
89	255	260
90	Leu Asn Ser Glu Gln Lys Asn Thr Leu Leu	
91	265	270
92	Lys Ser Tyr Lys Tyr Ile Lys Glu Ser Val	
93	275	280
94	Glu Asn Asp Ile Lys Phe Ala Gln Glu Gly	
95	285	290
96	Ile Ser Tyr Tyr Glu Lys Val Leu Ala Lys	
97	295	300
98	Tyr Lys Asp Asp Leu Glu Ser Ile Lys Lys	
99	305	310
100	Val Ile Lys Glu Glu Lys Glu Lys Phe Pro	
101	315	320
102	Ser Ser Pro Pro Thr Thr Pro Pro Ser Pro	
103	325	330
104	Ala Lys Thr Asp Glu Gln Lys Lys Glu Ser	
105	335	340

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002

TIME: 16:04:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112002\J057532.raw

```

106 Lys Phe Leu Pro Phe Leu Thr Asn Ile Glu
107           345           350
108 Thr Leu Tyr Asn Asn Leu Val Asn Lys Ile
109           355           360
110 Asp Asp Tyr Leu Ile Asn Leu Lys Ala Lys
111           365           370
112 Ile Asn Asp Cys Asn Val Glu Lys Asp Glu
113           375           380
114 Ala His Val Lys Ile Thr Lys Leu Ser Asp
115           385           390
116 Leu Lys Ala Ile Asp Asp Lys Ile Asp Leu
117           395           400
118 Phe Lys Asn Pro Tyr Asp Phe Glu Ala Ile
119           405           410
120 Lys Lys Leu Ile Asn Asp Asp Thr Lys Lys
121           415           420
122 Asp Met Leu Gly Lys Leu Leu Ser Thr Gly
123           425           430
124 Leu Val Gln Asn Phe Pro Asn Thr Ile Ile
125           435           440
126 Ser Lys Leu Ile Glu Gly Lys Phe Gln Asp
127           445           450
128 Met Leu Asn Ile Ser Gln His Gln Cys Val
129           455           460
130 Lys Lys Gln Cys Pro Glu Asn Ser Gly Cys
131           465           470
132 Phe Arg His Leu Asp Glu Arg Glu Glu Cys
133           475           480
134 Lys Cys Leu Leu Asn Tyr Lys Gln Glu Gly
135           485           490
136 Asp Lys Cys Val Glu Asn Pro Asn Pro Thr
137           495           500
138 Cys Asn Glu Asn Asn Gly Gly Cys Asp Ala
139           505           510
140 Asp Ala Thr Cys Thr Glu Glu Asp Ser Gly
141           515           520
142 Ser Ser Arg Lys Lys Ile Thr Cys Glu Cys
143           525           530
144 Thr Lys Pro Asp Ser Tyr Pro Leu Phe Asp
145           535           540
146 Gly Ile Phe Cys Ser Ser
147           545

```

149 &lt;210&gt; SEQ ID NO: 2

151 &lt;211&gt; LENGTH: 431

152 &lt;212&gt; TYPE: PRT

153 &lt;213&gt; ORGANISM: Artificial sequence

W--&gt; 154 &lt;220&gt; FEATURE:

155 <223> OTHER INFORMATION: E. coli expressed P. falciparum MSP142 (3D7) Protein  
Sequence in pET(50)MSP1-42

W--&gt; 156 &lt;400&gt; SEQUENCE: 2

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002  
 TIME: 16:04:57

Input Set : A:\Sequence.txt  
 Output Set: N:\CRF3\07112002\J057532.raw

157	Met	His	His	His	His	His	His	Ser	Ser	Gly	
158	1				5					10	
159	Leu	Val	Pro	Arg	Gly	Ser	Gly	Met	Lys	Glu	
160					15					20	
161	Thr	Ala	Ala	Ala	Lys	Phe	Glu	Arg	Gln	His	
162					25					30	
163	Met	Asp	Ser	Pro	Asp	Leu	Gly	Thr	Asp	Asp	
164					35					40	
165	Asp	Asp	Lys	Ala	Met	Ala	Asp	Ile	Gly	Ser	
166					45					50	
167	Ile	Glu	Gly	Arg	Gly	Thr	Met	Ala	Ile	Ser	
168					55					60	
169	Val	Thr	Met	Asp	Asn	Ile	Leu	Ser	Gly	Phe	
170					65					70	
171	Glu	Asn	Glu	Tyr	Asp	Val	Ile	Tyr	Leu	Lys	
172					75					80	
173	Pro	Leu	Ala	Gly	Val	Tyr	Arg	Ser	Leu	Lys	
174					85					90	
175	Lys	Gln	Ile	Glu	Lys	Asn	Ile	Phe	Thr	Phe	
176					95					100	
177	Asn	Leu	Asn	Leu	Asn	Asp	Ile	Leu	Asn	Ser	
178					105					110	
179	Arg	Leu	Lys	Lys	Arg	Lys	Tyr	Phe	Leu	Asp	
180					115					120	
181	Val	Leu	Glu	Ser	Asp	Leu	Met	Gln	Phe	Lys	
182					125					130	
183	His	Ile	Ser	Ser	Asn	Glu	Tyr	Ile	Ile	Glu	
184					135					140	
185	Asp	Ser	Phe	Lys	Leu	Leu	Asn	Ser	Glu	Gln	
E--> 186					<del>155</del> 145					150	
187	Lys	Asn	Thr	Leu	Leu	Lys	Ser	Tyr	Lys	Tyr	
E--> 188					<del>165</del> 155					160	
189	Ile	Lys	Glu	Ser	Val	Glu	Asn	Asp	Ile	Lys	
E--> 190					<del>175</del> 165					170	
191	Phe	Ala	Gln	Glu	Gly	Ile	Ser	Tyr	Tyr	Glu	
E--> 192					<del>185</del> 175					180	
193	Lys	Val	Leu	Ala	Lys	Tyr	Lys	Asp	Asp	Leu	
E--> 194					<del>195</del> 185					190	
195	Glu	Ser	Ile	Lys	Lys	Val	Ile	Lys	Glu	Glu	
E--> 196					<del>205</del> 195					200	
197	Lys	Glu	Lys	Phe	Pro	Ser	Ser	Pro	Pro	Thr	
E--> 198					<del>215</del> 205					210	
199	Thr	Pro	Pro	Ser	Pro	Ala	Lys	Thr	Asp	Glu	
E--> 200					<del>225</del> 215					220	
201	Gln	Lys	Lys	Glu	Ser	Lys	Phe	Leu	Pro	Phe	
E--> 202					<del>235</del> 225					230	
203	Leu	Thr	Asn	Ile	Glu	Thr	Leu	Tyr	Asn	Asn	
E--> 204					<del>245</del> 235					240	
205	Leu	Val	Asn	Lys	Ile	Asp	Asp	Tyr	Leu	Ile	

*invalid amino numbers*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002

TIME: 16:04:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112002\J057532.raw

```

E--> 206          255          250
      207 Asn Leu Lys Ala Lys Ile Asn Asp Cys Asn
E--> 208          265          260
      209 Val Glu Lys Asp Glu Ala His Val Lys Ile
E--> 210          275          270
      211 Thr Lys Leu Ser Asp Leu Lys Ala Ile Asp
E--> 212          285          280
      213 Asp Lys Ile Asp Leu Phe Lys Asn Pro Tyr
E--> 214          295          290
      215 Asp Phe Glu Ala Ile Lys Lys Leu Ile Asn
E--> 216          305          300
      217 Asp Asp Thr Lys Lys Asp Met Leu Gly Lys
E--> 218          315          310
      219 Leu Leu Ser Thr Gly Leu Val Gln Asn Phe
E--> 220          325          320
      221 Pro Asn Thr Ile Ile Ser Lys Leu Ile Glu
E--> 222          335          330
      223 Gly Lys Phe Gln Asp Met Leu Asn Ile Ser
E--> 224          345          340
      225 Gln His Gln Cys Val Lys Lys Gln Cys Pro
E--> 226          355          350
      227 Glu Asn Ser Gly Cys Phe Arg His Leu Asp
E--> 228          365          360
      229 Glu Arg Glu Glu Cys Lys Cys Leu Leu Asn
E--> 230          375          370
      231 Tyr Lys Gln Glu Gly Asp Lys Cys Val Glu
E--> 232          385          380
      233 Asn Pro Asn Pro Thr Cys Asn Glu Asn Asn
E--> 234          395          390
      235 Gly Gly Cys Asp Ala Asp Ala Thr Cys Thr
E--> 236          405          400
      237 Glu Glu Asp Ser Gly Ser Ser Arg Lys Lys
E--> 238          415          410
      239 Ile Thr Cys Glu Cys Thr Lys Pro Asp Ser
E--> 240          425          420
      241 Tyr Pro Leu Phe Asp Gly Ile Phe Cys Ser
E--> 242          435          430
      243 Ser
493 <210> SEQ ID NO: 7
494 <211> LENGTH: 391
495 <212> TYPE: PRT
496 <213> ORGANISM: Artificial sequence
W--> 497 <220> FEATURE:
497 <223> OTHER INFORMATION: E. coli expressed P. falciparum MSP-142 (3D7)
E--> 498 <400> SEQUENCE: 7
      499 Met Ala His His His His His His Pro Gly
      500 1          5          10
      501 Gly Ser Gly Ser Gly Thr Met Ala Ile Ser
      502          15          20

```

*checked amino numbers*

*2207 was missing → head field mandatory*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002

TIME: 16:04:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112002\J057532.raw

```

503 Val Thr Met Asp Asn Ile Leu Ser Gly Phe
504                               25          30
505 Glu Asn Glu Tyr Asp Val Ile Tyr Leu Lys
506                               35          40
507 Pro Leu Ala Gly Val Tyr Arg Ser Leu Lys
508                               45          50
509 Lys Gln Ile Glu Lys Asn Ile Phe Thr Phe
510                               55          60
511 Asn Leu Asn Leu Asn Asp Ile Leu Asn Ser
512                               65          70
513 Arg Leu Lys Lys Arg Lys Tyr Phe Leu Asp
514                               75          80
515 Val Leu Glu Ser Asp Leu Met Gln Phe Lys
516                               85          90
517 His Ile Ser Ser Asn Glu Tyr Ile Ile Glu
518                               95         100
519 Asp Ser Phe Lys Leu Leu Asn Ser Glu Gln
520                               105        110
521 Lys Asn Thr Leu Leu Lys Ser Tyr Lys Tyr
522                               115        120
523 Ile Lys Glu Ser Val Glu Asn Asp Ile Lys
524                               125        130
525 Phe Ala Gln Glu Gly Ile Ser Tyr Tyr Glu
526                               135        140
527 Lys Val Leu Ala Lys Tyr Lys Asp Asp Leu
528                               145        150
529 Glu Ser Ile Lys Lys Val Ile Lys Glu Glu
530                               155        160
531 Lys Glu Lys Phe Pro Ser Ser Pro Pro Thr
532                               165        170
533 Thr Pro Pro Ser Pro Ala Lys Thr Asp Glu
534                               175        180
535 Gln Lys Lys Glu Ser Lys Phe Leu Pro Phe
536                               185        190
537 Leu Thr Asn Ile Glu Thr Leu Tyr Asn Asn
538                               195        200
539 Leu Val Asn Lys Ile Asp Asp Tyr Leu Ile
540                               205        210
541 Asn Leu Lys Ala Lys Ile Asn Asp Cys Asn
542                               215        220
543 Val Glu Lys Asp Glu Ala His Val Lys Ile
544                               225        230
545 Thr Lys Leu Ser Asp Leu Lys Ala Ile Asp
546                               235        240
547 Asp Lys Ile Asp Leu Phe Lys Asn Pro Tyr
548                               245        250
549 Asp Phe Glu Ala Ile Lys Lys Leu Ile Asn
550                               255        260
551 Asp Asp Thr Lys Lys Asp Met Leu Gly Lys

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002  
TIME: 16:04:57

Input Set : A:\Sequence.txt  
Output Set: N:\CRF3\07112002\J057532.raw

552	265	270
553 Leu Leu Ser Thr Gly Leu Val Gln Asn Phe		
554	275	280
555 Pro Asn Thr Ile Ile Ser Lys Leu Ile Glu		
556	285	290
557 Gly Lys Phe Gln Asp Met Leu Asn Ile Ser		
558	295	300
559 Gln His Gln Cys Val Lys Lys Gln Cys Pro		
560	305	310
561 Glu Asn Ser Gly Cys Phe Arg His Leu Asp		
562	315	320
563 Glu Arg Glu Glu Cys Lys Cys Leu Leu Asn		
564	325	330
565 Tyr Lys Gln Glu Gly Asp Lys Cys Val Glu		
566	335	340
567 Asn Pro Asn Pro Thr Cys Asn Glu Asn Asn		
568	345	350
569 Gly Gly Cys Asp Ala Asp Ala Thr Cys Thr		
570	355	360
571 Glu Glu Asp Ser Gly Ser Ser Arg Lys Lys		
572	365	370
573 Ile Thr Cys Glu Cys Thr Lys Pro Asp Ser		
574	375	380
575 Tyr Pro Leu Phe Asp Gly Ile Phe Cys Ser		
576	385	390
577 Ser		

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002  
TIME: 16:04:58

Input Set : A:\Sequence.txt  
Output Set: N:\CRF3\07112002\J057532.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 36  
Seq#:2; Line(s) 155

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/057,532

DATE: 07/11/2002

TIME: 16:04:58

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112002\J057532.raw

L:3 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:  
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:25 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:35 M:283 W: Missing Blank Line separator, <220> field identifier  
L:37 M:283 W: Missing Blank Line separator, <400> field identifier  
L:44 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1  
L:154 M:283 W: Missing Blank Line separator, <220> field identifier  
L:156 M:283 W: Missing Blank Line separator, <400> field identifier  
L:186 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2  
M:332 Repeated in SeqNo=2  
L:250 M:283 W: Missing Blank Line separator, <220> field identifier  
L:252 M:283 W: Missing Blank Line separator, <400> field identifier  
L:339 M:283 W: Missing Blank Line separator, <400> field identifier  
L:376 M:283 W: Missing Blank Line separator, <400> field identifier  
L:458 M:283 W: Missing Blank Line separator, <220> field identifier  
L:460 M:283 W: Missing Blank Line separator, <400> field identifier  
L:497 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:498 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:7  
L:498 M:283 W: Missing Blank Line separator, <400> field identifier  
L:584 M:283 W: Missing Blank Line separator, <220> field identifier  
L:586 M:283 W: Missing Blank Line separator, <400> field identifier  
L:593 M:283 W: Missing Blank Line separator, <220> field identifier  
L:595 M:283 W: Missing Blank Line separator, <400> field identifier  
L:605 M:283 W: Missing Blank Line separator, <220> field identifier  
L:607 M:283 W: Missing Blank Line separator, <400> field identifier  
L:615 M:283 W: Missing Blank Line separator, <220> field identifier  
L:617 M:283 W: Missing Blank Line separator, <400> field identifier  
L:626 M:283 W: Missing Blank Line separator, <220> field identifier  
L:628 M:283 W: Missing Blank Line separator, <400> field identifier